H1415

0055811

Lionville Laboratory, Inc. PCB ANALYTICAL DATA PACKAGE FOR TNUHANFORD B01-104 H1415

DATE RECEIVED: 07/05/01 LVL LOT # :0107L229

CLIENT 1	ID	LVL	# MT2	X	PREP	#	COLLECTION	EXTR/PREP	AN	ALYSIS
				_					_	
B129N0		001	W	I	01LE07	99	06/28/01	07/05/01	07	/09/01
B129N1		002	W:	I	01LE07	99	06/28/01	07/05/01	07	/10/01
B129N2		003	W:	I	01LE07	99	06/28/01	07/05/01	07	/10/01
B129N3		004	W:	I	01LE07	99	06/28/01	07/05/01	07	/10/01
B129N4		005	W:	I	01LE07	99	06/28/01	07/05/01	07	/10/01
B129N5		006	W.	I	01LE07	99	06/28/01	07/05/01	07	/10/01
LAB QC:										
PBLKJN		MB1	W	I	01 LE 07	99	N/A	07/05/01	07	/10/01
PBLKJN		MB1	BS W	I	01LE07	99	N/A	07/05/01	07	/09/01
PBLKJN		MBl	BSD W	I	01LE07	99	N/A	07/05/01	07	/10/01

Aprilials,





Analytical Report

Client: TNU HANFORD B01-104

LVL#: 0107L229

SDG/SAF#: H1415/B01-104

W.O.#: 11343-606-001-9999-00

Date Received: 07-05-01

PCB

The set of samples consisted of six (6) wipe samples collected on 06-28-01.

The samples and their associated QC samples were extracted on 07-05-01 and analyzed according to Lionville Laboratory OPs based on SW846, 3rd Edition procedures on 07-09,10-01. The extraction procedure was based on method 3540 and the extracts were analyzed based on method 8082 for Aroclors only.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

- 1. The cooler temperature has been recorded on the chain-of-custody.
- 2. All required holding times for extraction and analysis have been met.
- 3. The samples and their associated OC samples received a sulfuric acid cleanup.
- 4. The method blank and blank spike duplicate contained Aroclor 1242 at a level above the reporting limit. Aroclor 1242 was also detected in several of the samples. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
- 5. Three (3) of ten (10) obtainable surrogate recoveries were outside acceptance criteria. A copy of the SDR has been enclosed.
- 6. The obtainable blank spike recovery was outside acceptance criteria. A copy of the SDR has been enclosed.
- 7. Due to insufficient sample volume, matrix spike QC could not be performed on any samples in this data set.
- 8. Several samples required instrument dilutions due to the high concentrations of target analytes. Reporting limits have been adjusted to reflect the necessary dilutions.
- 9. All initial calibrations associated with this data set were within acceptance criteria.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical

- 10. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
- 11. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.

Iain Daniels

Deputy Laboratory Manager Lionville Laboratory Incorporated

pef\r:\group\data\pest\07L-229.pcb

7/25/9/



Lionville Laboratory Sample Discrepancy Report (SDR) SDR #: <u>014C291</u>
Initiator: M.Koh Batch: 6167L229 Parameter: 0PCB Date: 7/u/e/ Samples: 4/ Matrix: Wipe Client: 7NU Method: 5W846McAWW/CLP/ Prep Batch: 01650799
1. Reason for SDR a. COC Discrepancy _ Tech Profile Error _ Client Request _ Sampler Error on C-O-C _ Transcription Error _ Wrong Test Code _ Other _ b. General Discrepancy _ Missing Sample/Extract _ Container Broken _ Wrong Sample Pulled _ Label ID's Illegible _ Hold Time Exceeded _ Insufficient Sample _ Preservation Wrong _ Received Past Hold _ Improper Bottle Type _ Not Amenable to Analysis Note: Verified by [Log-In] or [Prep Group] (circle)signature/date:
3. Discussion and Proposed Action Other Description: Re-log
Route Distribution of Completed SDR X Initiator X Lab General Manager: M Taylor X Project Mgr: Stone Kohnson/Daslett X Technical Mgr: Wesson/Daniels X QA (file): Alberts Distribution of Completed SDR Metals: Beegle Inorganic: Perrone GC/LC: Kiger MS: Rychlak/Layman Log-in: Keppel Admin: Soos Sample Prep: Beegle/Kiger Other:

Lionville Laboratory Sample Discrepancy Report (SDR)



GLOSSARY OF PESTICIDE/PCB DATA

DATA QUALIFIERS

- U = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I = lnterference.

ABBREVIATIONS

- BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD = Indicates blank spike duplicate.
- MS = Indicates matrix spike.
- MSD = Indicates matrix spike duplicate.
- DL = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA = Not Applicable.
- DF = Dilution Factor.
- NR = Not Required.
- SP = Indicates Spiked Compound.



GLOSSARY OF PESTICIDE/PCB DATA

- P = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C = This flag applies to a compound that has been confirmed by GC/MS.

Lionville Laboratory, Inc.

			TOUALTIE FUNC	_		_	
			PCBs 1			Report Date: 07	
RFW Batch Nu	mber: 0107L229	Client: TNU	HANFORD B01-1	04 H1415 Work C	<u>)rder: 113436060</u>	or Page: I	
	Cust ID:	B129N0	B129N1	B129N2	B129N3	B129N4	B129N5
Sample	RFW#:	001	002	003	004	005	006
Information	Matrix:	WIPE	WIPE	WIPE	WIPE	WIPE	WIPE
	D.F.:	1.00	20000	100000	100000	1.00	1.00
	Units:	ug/WIPE	ug/WIPE	ug/WIPE	ug/WIPE	ug/WIPE	ug/WIPE
Surrogate:	Decachlorobiphenyl	123 * %	D %	D %	D %	113 %	110
	Tetrachloro-m-xylene	128 * %	D %	D %	D &	100 %	98 1
	- +==q===q==q===q=======================						
Aroclor-1016		_	0.10E+08 U	0.50E+08 U	0.50E+08 U	500 U	500 t
Aroclor-1221		_ 500 U	0.10E+08 U	0.50E+08 U	0.50E+08 U 0.50E+08 U	500 ปี 500 ปี	500 T 500 T
Arocior-1232		_ 500 บ 500 บ	0.10E+08 U 0.26E+08	0.50E+08 U 0.17E+09	0.15E+09	500 U	500 t
Arocior-1242 Arocior-1248		_ 500 U	0.26E+08 0.10E+08 U		0.15E+09 0.50E+08 U	500 U	500 t
Aroclor-1246 Aroclor-1254		_ 500 U	0.10E+08 U		0.50E+08 U	500 U	500 t
Aroclor-1254		_ 500 U	0.10E+08 U	0.50E+08 U	0.50E+08 U	500 U	500 t
		_	***************************************				
	Cust ID:	PBLKJN	PBLKJN BS	PBLKJN BSD			
Sample	RFW#:	01LE0799-MB1	01LE0799-MB1	01LE0799-MB1			
Information	Matrix:	WIPE	WIPE	WIPE			
	D.F.:	1.00	1,00	50.0			
	Units:	ug/WIPE	ug/WIPE	ug/WIPE			
Surrogate:	Decachlorobiphenyl	123 * %	110 %	D &			
	Tetrachloro-m-xylene	108 %	102 %	D %	53		
======================================			500 U	.======£1= 25000 U	=======11*=	:=====================================	======f
Aroclor-1221		500 11	500 U	25000 บั			
Aroclor-1232		500 11	500 U	25000 U			
Aroclor-1242		1600	500 U	190000			
Aroclor-1248		500 บ	500 U	25000 U		Jen !	762
Aroclor-1254			205 * %	D %		Jen	

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked. %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Lionville L	aborat	ory	Use	Only
010	71	2	29	

Custody Transfer Record/Lab Work Request Page ____of____

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS



															_								
Cilent	Tru	Hanf	OCO B	01-10-	\	Refrig	erator#			ļ	4)		 		-				1,1
Est. Final Pro	oj. Samp	oling Date _	·			_ #Type	Container	Liquid					<u> </u>					-	-				1
Project #	134	5-6X	a-001:	9999-0	<u> </u>	,		Solid			10								 	<u> </u>			
Project Contr	sct/Phor	10 #				_ Volum		Liquid								_							-
Lionville Laboratory Project Manager					_		Solid			150						-	<u> </u>						
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444 ======					Matrix	- 	T					1		Lionv	ille La	borat	ory Us	se Onl	у	1			
MATRIX CODES: S - Soil SE - Sediment SO - Soild	Lab iD	,	Client ID/Dea	scription	OC Chosen (V)	Matrix	Collected	Time Collected			ORB												
SL - Sludge W - Water		0.00			MS MS						<u> </u>				 				-				
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Liquids L - EP/TCLP	BW.		3								<u> </u>		<u> </u>			-	1	-	 - -	-			
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Special Instruc	l	C 7 2 C	201-10	N	DAT	E/REVISIO							<u> </u>				-	Lionvi	lle Lab	oratory	Use O	nly	
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Fraex		Kapel.		<u>09.30</u>	COMPO	SITE	ORIGINAL											Cooler 6.5 °C					

Bechtel Hanfo	ord Inc.	C	HAIN OF CUST	ODY/S	AMPL	E ANALY	SIS	REQUEST		В	1-104-01	Page 1	SE PT			
Collector Brasker, William		Comps	any Contact ne Jacques	Telephot	ne No.			Project Coordin TRENT, SJ	stor	Price Code	9 J	Data Tui	naround naround			
Project Designation 202-S Light Ballast Fire Cha	aracterization		ing Location					SAF No. B01-104		Air Qualit	y 🗆	7 [Days			
Ice Chest No. ERC 99-01	65/SML442	Field I	Logbook No. WA		COA BREDO	X2W28		Method of Ships Fed Ex	nent							
Shipped To TMA/KECRA		Offsite	Property No. AØ	1042	-8			Bill of Lading/	574	<u>54- (</u>	5521	155	35			
POSSIBLE GAMPLE HAZARDS/REMARKS Samples did not originate in PCB radiological controlled area. No total activity associated with sample/samples. Special Handling and/or Storage			Preservation	Cool 4C						ļ	}	1	!			
			Type of Container	G					- Sam	nles stored	in Ref.#2E	at the 372	R			
Special Italianing and V	(J.U.)	!	No. of Container(s)	1					Ship	amples stored in Ref.#20at the 3728 hipping Facility on <u>6/24/01</u> . ollector not available to relenquish						
			Volume	120mL					\$2ml	oles on <u>P</u> /	<u> </u>	shipment.	سد 🗝			
				PCBs - 8082									X			
	SAMPLE ANALYSIS										Ī	ļ	7.20			
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Sample No.		mple Date	Sample Time			7,	~	2 0 1	A 1							
B129N0		<u> 28.C</u>		\X	 		<u> </u>		011	_		 				
B129N1	OTHER SOLID	₹Ø.t	NA	\	 		- <u>~</u> ?	5 01 1					 -			
B129N2	OTHER SOLID	<u> </u>	NA	 	 	 	(2-01-	<u>53</u>)		 	<u> </u>				
B129N3	OTHER SOLID	<u> </u>	DI NA	<u> </u>		<u> </u>	-3	X 1012		 -						
B129N4		<u> 28 · (</u>	OII NA			الملكات	رح-	בוסוד	00)		<u> </u>	<u> </u>	Matrix *			
CHAIN OF POSSESSI		Sign/Print	t Names of in Sa <i>Tor(PD) W</i> Da	ta/Tima		ECIAL INSTRU Laboratory is to re		NS lits on a per sample b	asis.			,				
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LABORATORY Received SECTION	Ву			Tie	ile						<u> </u>	etc/Time				
FINAL SAMPLE Disposal b	Method					Dispos	ed By			•	Į	Oate/Time				

sechte	l Hanfor	d Inc.		CEAN OF CUST	CODY/S	AM	IPLE	PLE ANALYS!					B01-104-01		Page 2	برسيس
Collector Brasker, William				npany Contact Duane Jacques	Telepho 373-5					Project TRENT	Coordin , SJ	Price Code 9J			Data Turnsround	
Project Designation 202-S Light Ballas		cterization		npling Location 202-S						SAF No B01-10-			Air Qua	lity 🗌	7]	Days
Ice Chest No.	9-06	5/5M1-44	7 Fe	ld Logbook No.		CC BRI	DA EDOXZ	W28		Method Fed E	of Shipe x	nent				
Shipped To TMARECRA			On	site Property No. A	404	28	<u> </u>		-	Bill of		HE BOWN	54 -	-552	4-58	535
POSSIBLE SAMP Samp PCB radio	ological con	trolled area. No		Preservation	Cool 4C											
sample/samples. Special Hankung and/or Storage) l	Type of Container	G											
	-			No. of Container(s)	1 120mL	<u> </u>			<u> </u> -	_	·					<u> </u>
<u> </u>				Volume	ļ											<u> </u>
		SAMPLE ANAL	YSIS		PCBs - 8082			7	, ,	5AC	v Dla	-4				
Sample N	lo.	Matrix *	Sample Da	te Sample Time				٠ـــــ	7 1		111210	= 11-				
B129N5		OTHER SOLID	6.28	DI NA	X		<u> </u>	هٔ-ما	 	-01	-0	<u>(ط</u>	Shippi: Collect	es stored in Rong Facility on tor not availat /2/0(fo	le to relind	1 <u>27.</u> Juish sample
													1_	L	1	7.2.0
CHAIN OF P Retinquished By/Remov Retinquished By/Remov Retinquished By/Remov Retinquished By/Remov Retinquished By/Remov	Prom 3 3 Prom 2	Dete/Time 5.290/ /340 Dete/Time D&O	Reserved by	Bored In Distored	yes trans	<u> </u>	•• L	IAL INSTR			r sample b	asis.				Matrix * S=Coli S=Colid SD=Colid SD=Colid SD=Colid SD=Colid SD=Colid A=Air DS=Drum Liquids T=Tienus WI=Wipe L=Liquid V=Vegetation X=Other
LABORATORY SECTION	Received By		-		Ti	tie								Ī	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Me	thod						Dispos	sed By]	Date/Time	

Figure 1. Sample Check-in List

Date/Time Received: 7/3/01 / 09.30 ((Samples)		
SDG#: 0107L229	• · · · · · · · · · · · · · · · · · · ·		
Work Order Number:	SAF# PO	1-104	
Shipping Container ID: SML-445	Chain of Custody	18-201-104-01	•
1. Custody Seals on shipping container intact?	•	Yes [] No []	
2. Custody Seals dated and signed?		Yes [] No []	
3. Chain-of-Custody record present?		Yes N-No Myclow	
4. Cooler temperature 6.5°C		1750 BC	
5. Vermiculite/packing materials is		Wet [] Dry []	
6. Number of samples in shipping container:	0		•
7. Sample holding times exceeded?		Yes [] No 1]	
8. Samples have:tapecustody seals	_hazard labels _appropriate sample	: labels	
9. Samples are: in good condition broken	_leaking _have air bubbles	•	
10. Were any anomalies identified in sample re	eceipt?	Yes [] No []	
11. Description of anomalies (include sample t	numbers):	·	
- Samps were read on	7-3-010	0970 W/O any cocs	papinwa K
. Car was recid on 7-5	-01 @ 101S		-
Sample Custodian/Laboratory: The O	LULI	Date: 7-5.01	
Telephoned to:	On	Ву	